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## ABSTRACT

The invention relates to CSG polypeptides, polynucleotides encoding the polypeptides, methods for producing the polypeptides, in particular by expressing the  
5 polynucleotides, and agonists and antagonists of the polypeptides. The invention further relates to methods for utilizing such polynucleotides, polypeptides, agonists and antagonists for applications, which relate, in part, to research, diagnostic and clinical arts.

**Table 1**

Year	Population	GDP	Per capita GDP	Life expectancy	Infant mortality rate	Fertility rate	Urbanization rate	Health expenditure	Education expenditure
1980	760 million	\$100 billion	\$130	65 years	100 per 1,000 live births	5.0 children per woman	20%	\$0.5 billion	\$1.0 billion
1985	800 million	\$150 billion	\$180	67 years	80 per 1,000 live births	4.5 children per woman	25%	\$1.0 billion	\$1.5 billion
1990	850 million	\$200 billion	\$230	69 years	60 per 1,000 live births	4.0 children per woman	30%	\$2.0 billion	\$2.5 billion
1995	900 million	\$250 billion	\$270	71 years	40 per 1,000 live births	3.5 children per woman	35%	\$3.0 billion	\$3.5 billion
2000	950 million	\$300 billion	\$310	73 years	25 per 1,000 live births	3.0 children per woman	40%	\$4.0 billion	\$4.5 billion
2005	1.0 billion	\$350 billion	\$350	75 years	15 per 1,000 live births	2.5 children per woman	45%	\$5.0 billion	\$5.5 billion
2010	1.1 billion	\$400 billion	\$360	76 years	10 per 1,000 live births	2.0 children per woman	50%	\$6.0 billion	\$6.5 billion
2015	1.2 billion	\$450 billion	\$370	77 years	8 per 1,000 live births	1.8 children per woman	55%	\$7.0 billion	\$7.5 billion
2020	1.3 billion	\$500 billion	\$380	78 years	6 per 1,000 live births	1.5 children per woman	60%	\$8.0 billion	\$8.5 billion
2025	1.4 billion	\$550 billion	\$390	79 years	5 per 1,000 live births	1.2 children per woman	65%	\$9.0 billion	\$9.5 billion
2030	1.5 billion	\$600 billion	\$400	80 years	4 per 1,000 live births	1.0 children per woman	70%	\$10.0 billion	\$10.5 billion
2035	1.6 billion	\$650 billion	\$400	81 years	3 per 1,000 live births	0.8 children per woman	75%	\$11.0 billion	\$11.5 billion
2040	1.7 billion	\$700 billion	\$400	82 years	2 per 1,000 live births	0.6 children per woman	80%	\$12.0 billion	\$12.5 billion
2045	1.8 billion	\$750 billion	\$400	83 years	1.5 per 1,000 live births	0.5 children per woman	85%	\$13.0 billion	\$13.5 billion
2050	1.9 billion	\$800 billion	\$400	84 years	1.0 per 1,000 live births	0.4 children per woman	90%	\$14.0 billion	\$14.5 billion